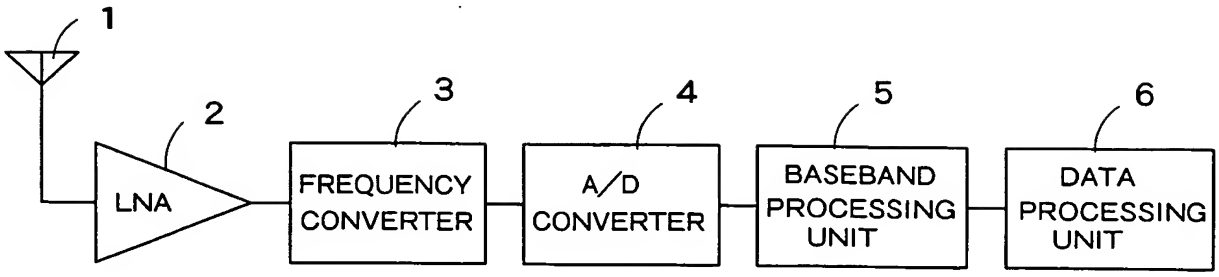

FIG.1

EVEN SYMBOL PHASE SHIFT	digit pattern(d0,d1)	ODD SYMBOL PHASE SHIFT
0	00	π
$\pi/2$	01	$3\pi/2$
π	11	0
$3\pi/2$	10	$\pi/2$

FIG.2

digit pattern(di,d(i+1))	PHASE OF ϕi
00	0
01	$\pi/2$
10	π
11	$3\pi/2$

FIG.3

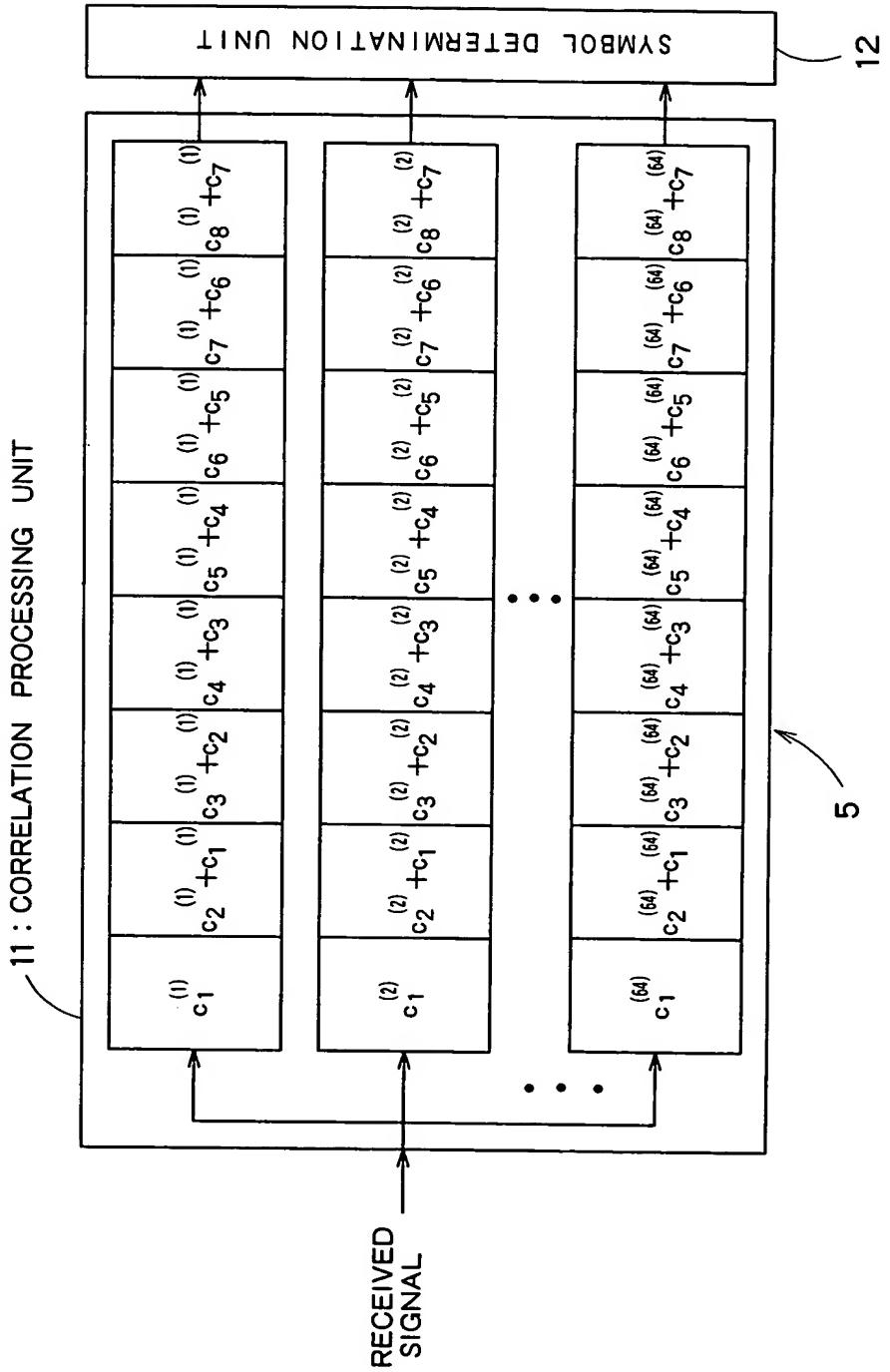
SYMBOL DETERMINATION UNIT
12
11 : CORRELATION PROCESSING UNIT
5
RECEIVED SIGNAL

FIG.4

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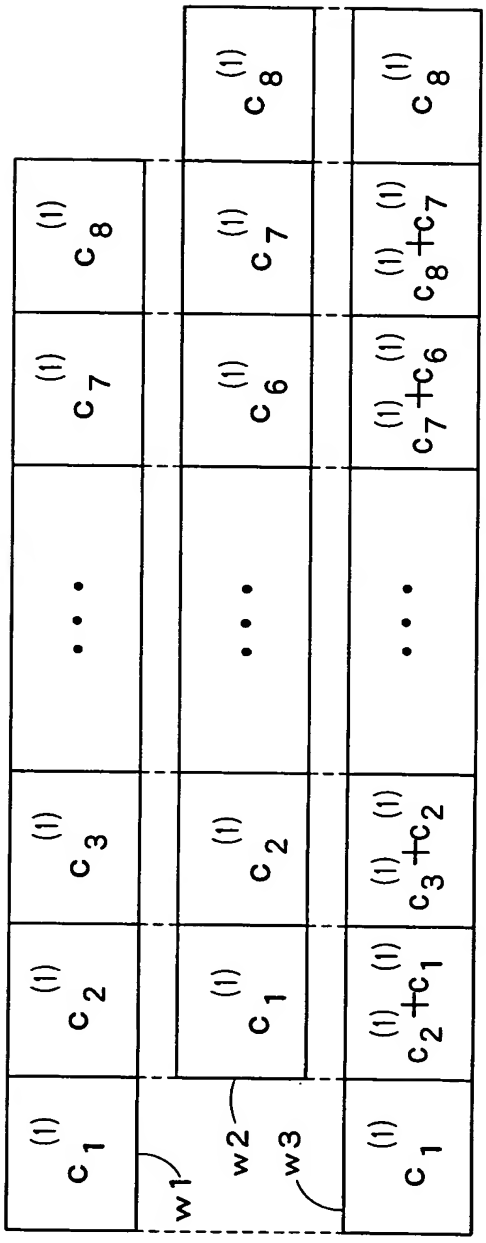
$c_1^{(1)}$
$c_2^{(1)}$
$c_3^{(1)}$
...
$c_7^{(1)}$
$c_8^{(1)}$
w1
w2
w3
$c_1^{(1)}$
$c_2^{(1)}$
$c_1^{(1)}$
$c_3^{(1)}$
$c_2^{(1)}$
...
$c_6^{(1)}$
$c_7^{(1)}$
$c_8^{(1)}$
$c_1^{(1)}$
$c_2^{(1)}+c_1^{(1)}$
$c_3^{(1)}+c_2^{(1)}$
...
$c_7^{(1)}+c_6^{(1)}$
$c_8^{(1)}+c_7^{(1)}$
$c_8^{(1)}$

FIG.5

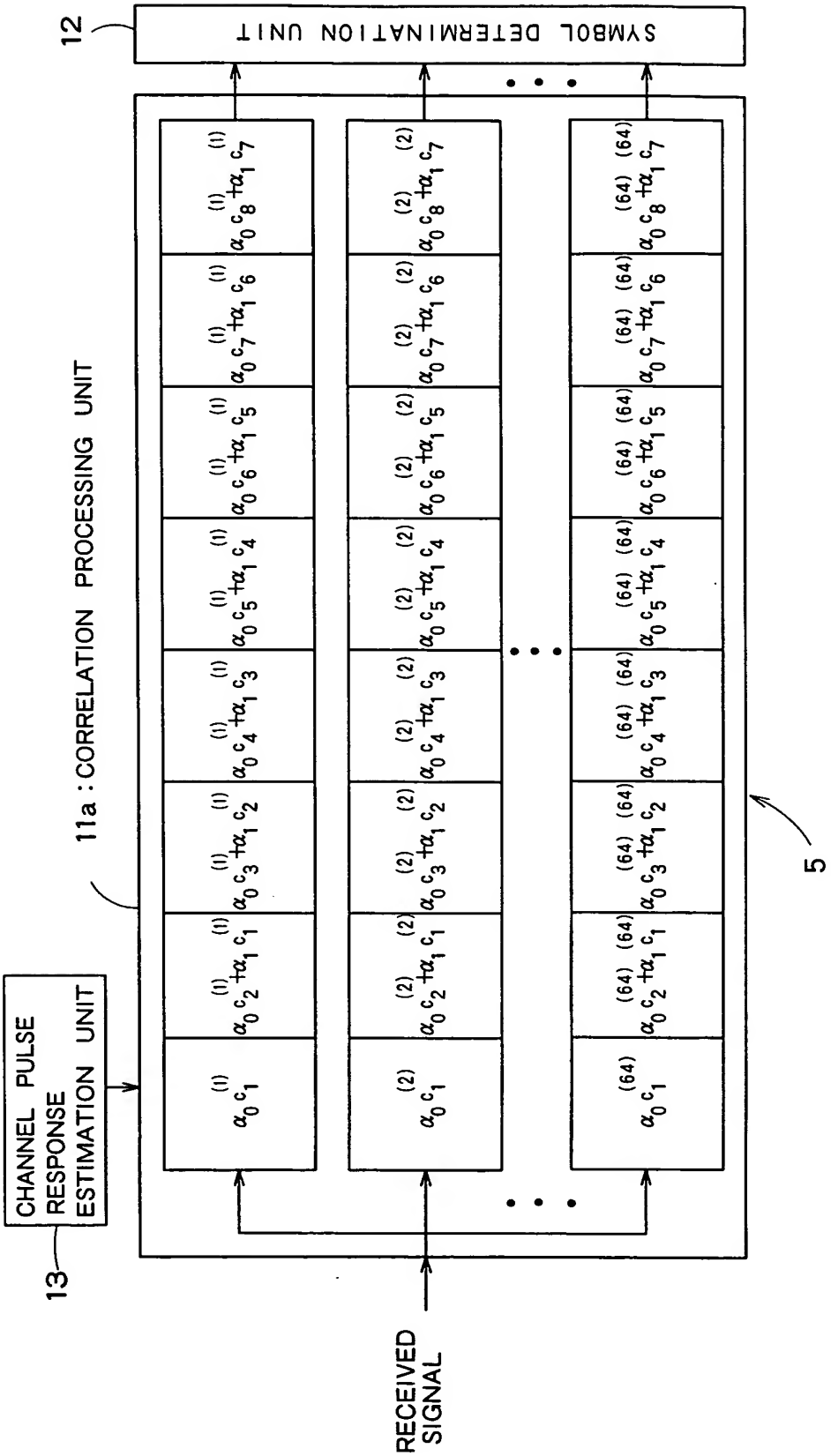
12
SYMBOL DETERMINATION UNIT
11a : CORRELATION PROCESSING UNIT
CHANNEL PULSE RESPONSE ESTIMATION UNIT
13
RECEIVED SIGNAL
5

FIG.6

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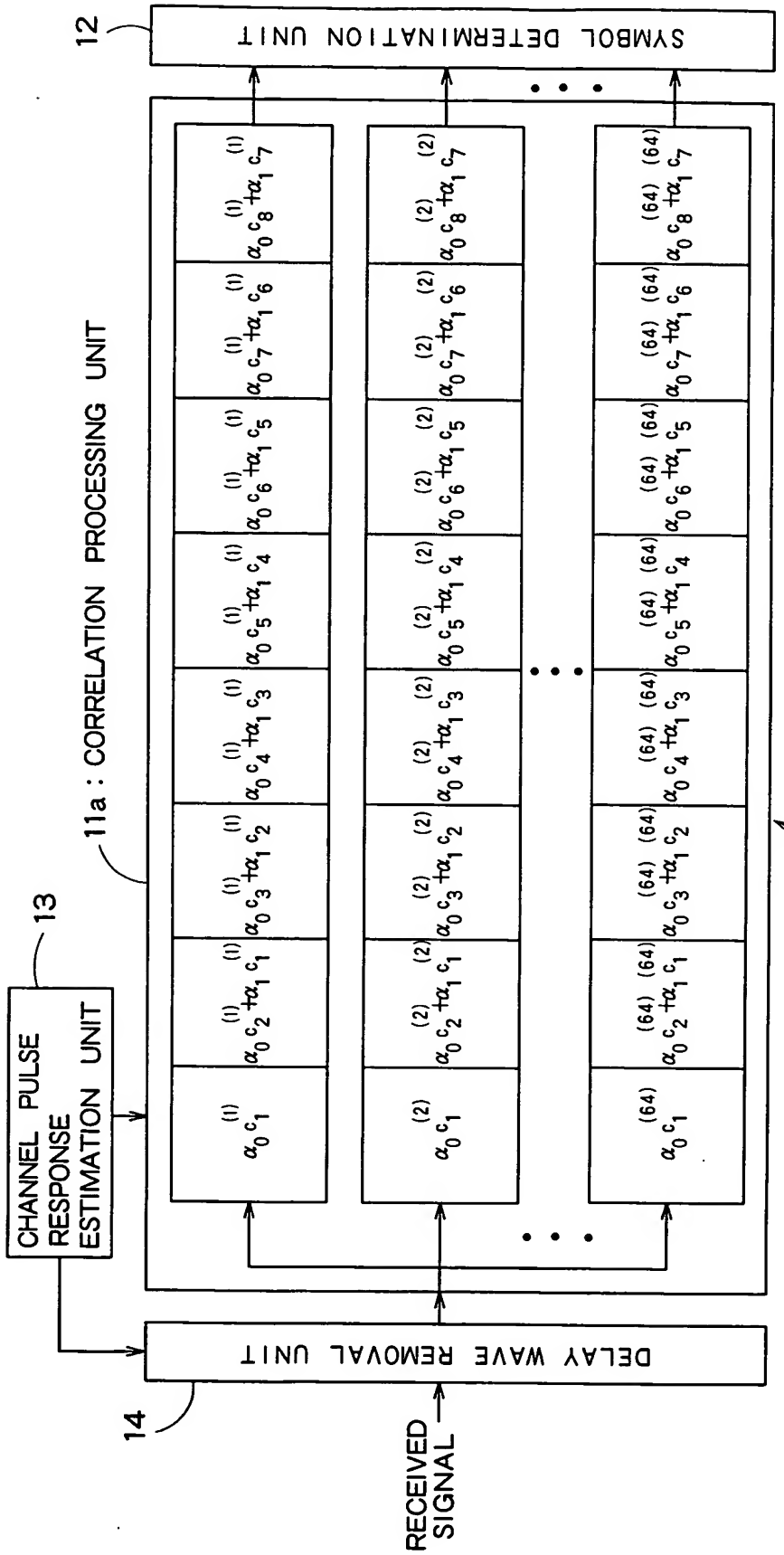
12
SYMBOL DETERMINATION UNIT
11a : CORRELATION PROCESSING UNIT
13
CHANNEL PULSE RESPONSE ESTIMATION UNIT
DELAY WAVE REMOVAL UNIT
14
RECEIVED SIGNAL
5

FIG.7

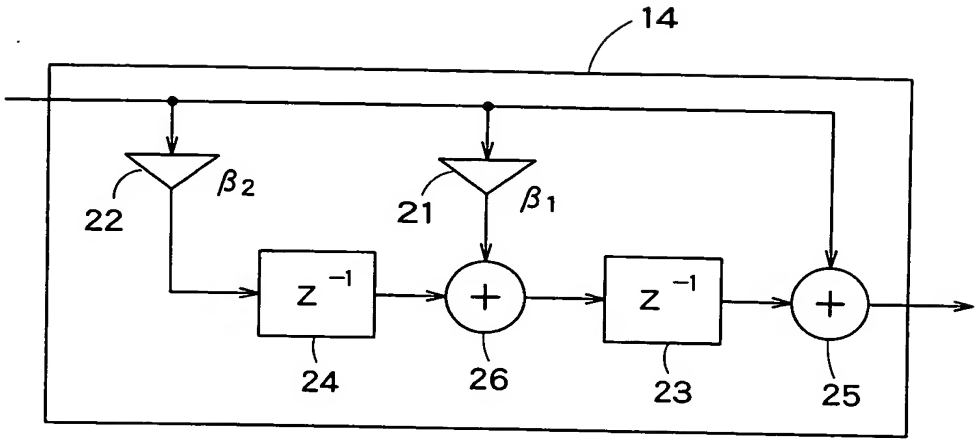

FIG.8

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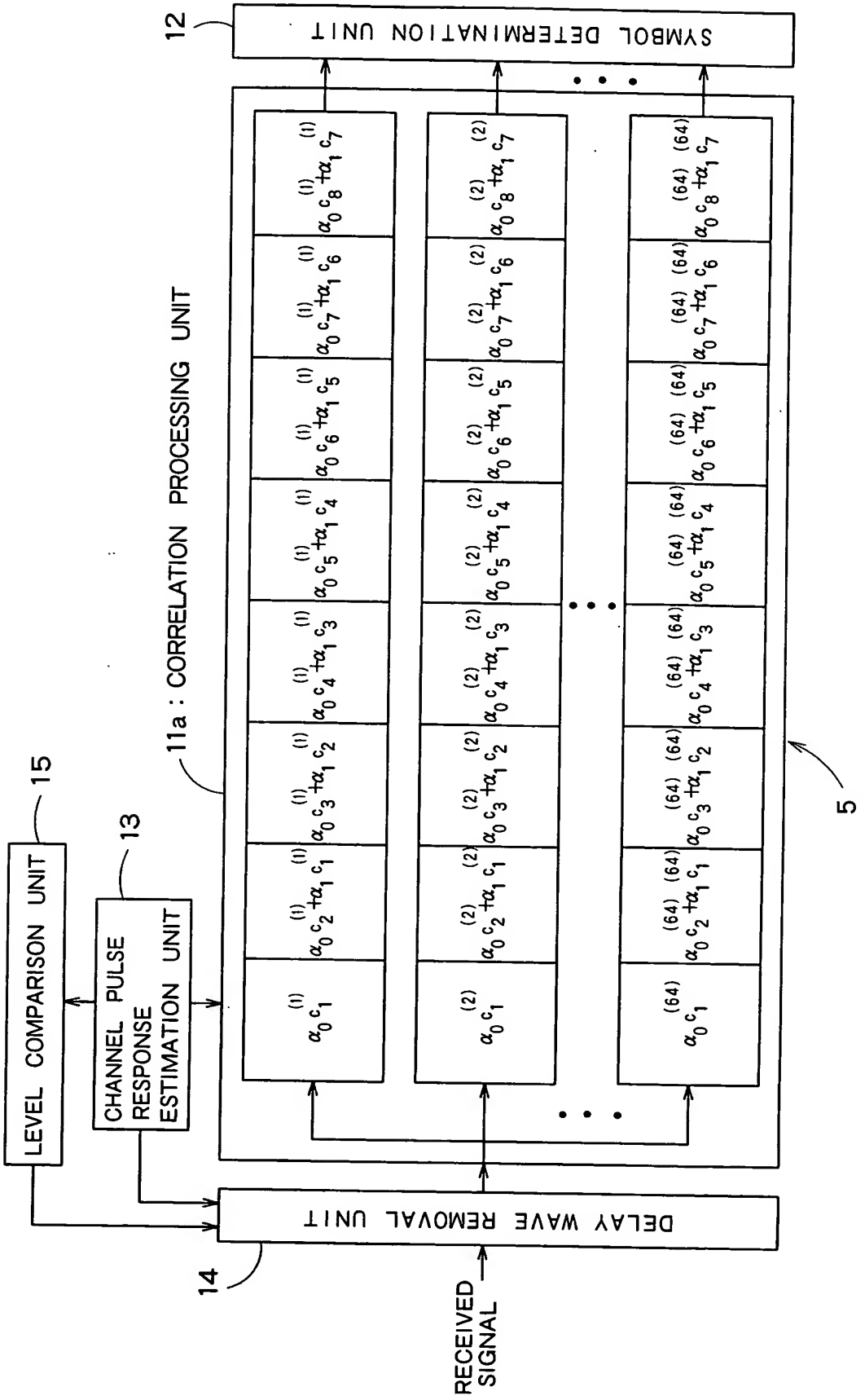
SYMBOL DETERMINATION UNIT
12
11a : CORRELATION PROCESSING UNIT
LEVEL COMPARISON UNIT
15
CHANNEL PULSE RESPONSE ESTIMATION UNIT
13
DELAY WAVE REMOVAL UNIT
14
RECEIVED SIGNAL
5

FIG.9